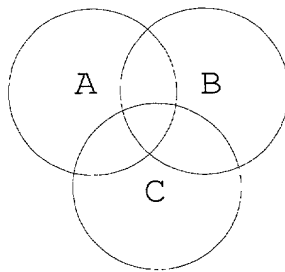
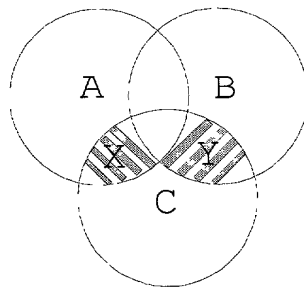


Reference sequence:	AGCTCATTGA
Possible sub-sequences:	AGCTCATTG
	GCTCATTGA
	AGCTCATT
	GCTCATTG
	CTCATTGA

**FIGURE 1**



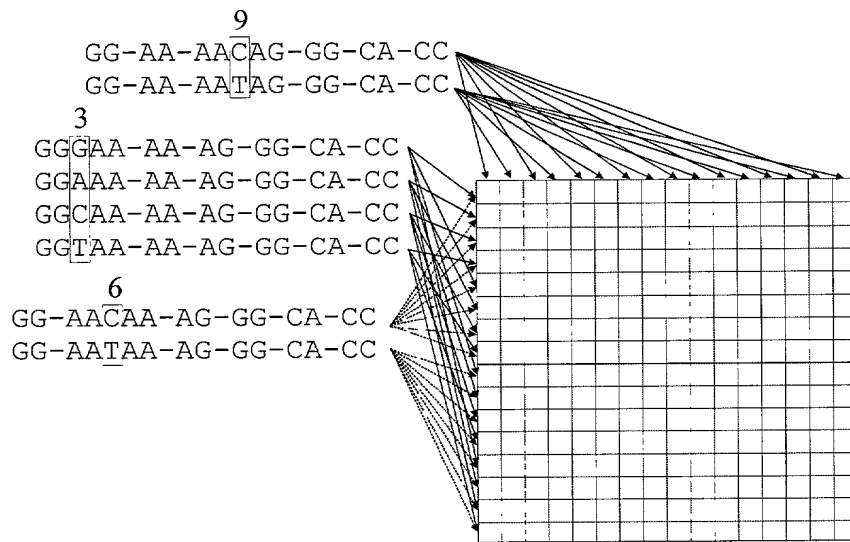
**FIGURE 2A**



**FIGURE 2B**

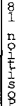


FIGURE 3

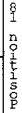


**FIGURE 4**

## Positions



## Positions



## Positions

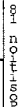


FIGURE 6A

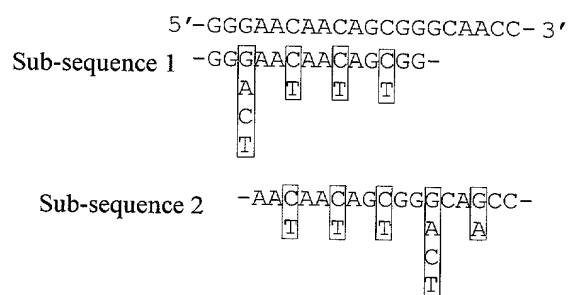


FIGURE 6B

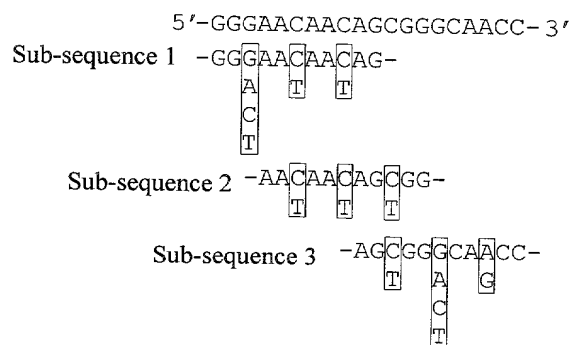


FIGURE 6C



FIGURE 6D



## B motif

Positions

Position 3	9	C T				9	C T				9	G A									
	6	C	T	C	T	6	C	T	C	T	6	G	A	T	C	G	A	C	T		
	G	1	2	3	4	3	C	17	18	19	20	3	C	25	26	27	28	29	30	31	32
	A	5	6	7	8	T	21	22	23	24	T	33	34	35	36	37	38	39	40		
	C	9	10	11	12																
T	13	14	15	16																	

## WCIE motif

11	G				A				C					9	C			T				
9	G	A	T	C	G	A	C	T	G	A	C	T		6	G	A	C	G	A	C		
5	C	41	42	43	44	45	46	47	48	49	50	51	52		G	65	66	67	68	69	70	
	T	53	54	55	56	57	58	59	60	61	62	63	64		A	71	72	73	74	75	76	
															3	C	77	78	79	80	81	82
																T	83	84	85	86	87	88

## NVED motif

3	12	C												T																			
	9	G				A				C				T				G				A				C				T			
	6	G	A	T	G	A	T	G	A	T	G	A	T	G	A	T	G	A	T	G	A	T	G	A	T	G	A	T					
		89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112								
		113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136								

FIGURE 7



PVY-N PVY-NFR PVY-PA

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112
113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128
129	130	131	132	133	134	135	136								

PVY-Co

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112
113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128
129	130	131	132	133	134	135	136								

PVY-HUNG

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112
113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128
129	130	131	132	133	134	135	136								

BYMV-S

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112
113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128
129	130	131	132	133	134	135	136								

PVY-NSW

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112
113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128
129	130	131	132	133	134	135	136								

FIGURE 8

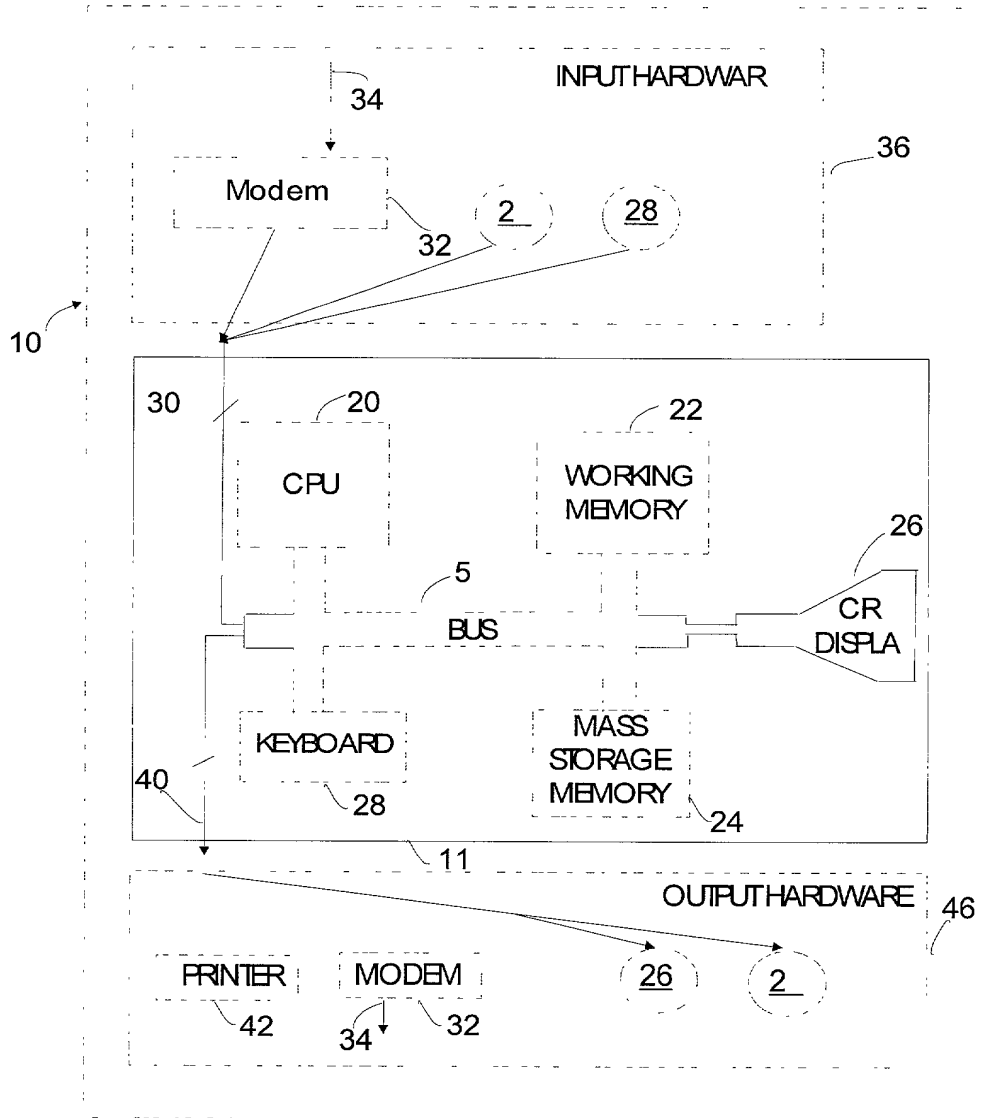
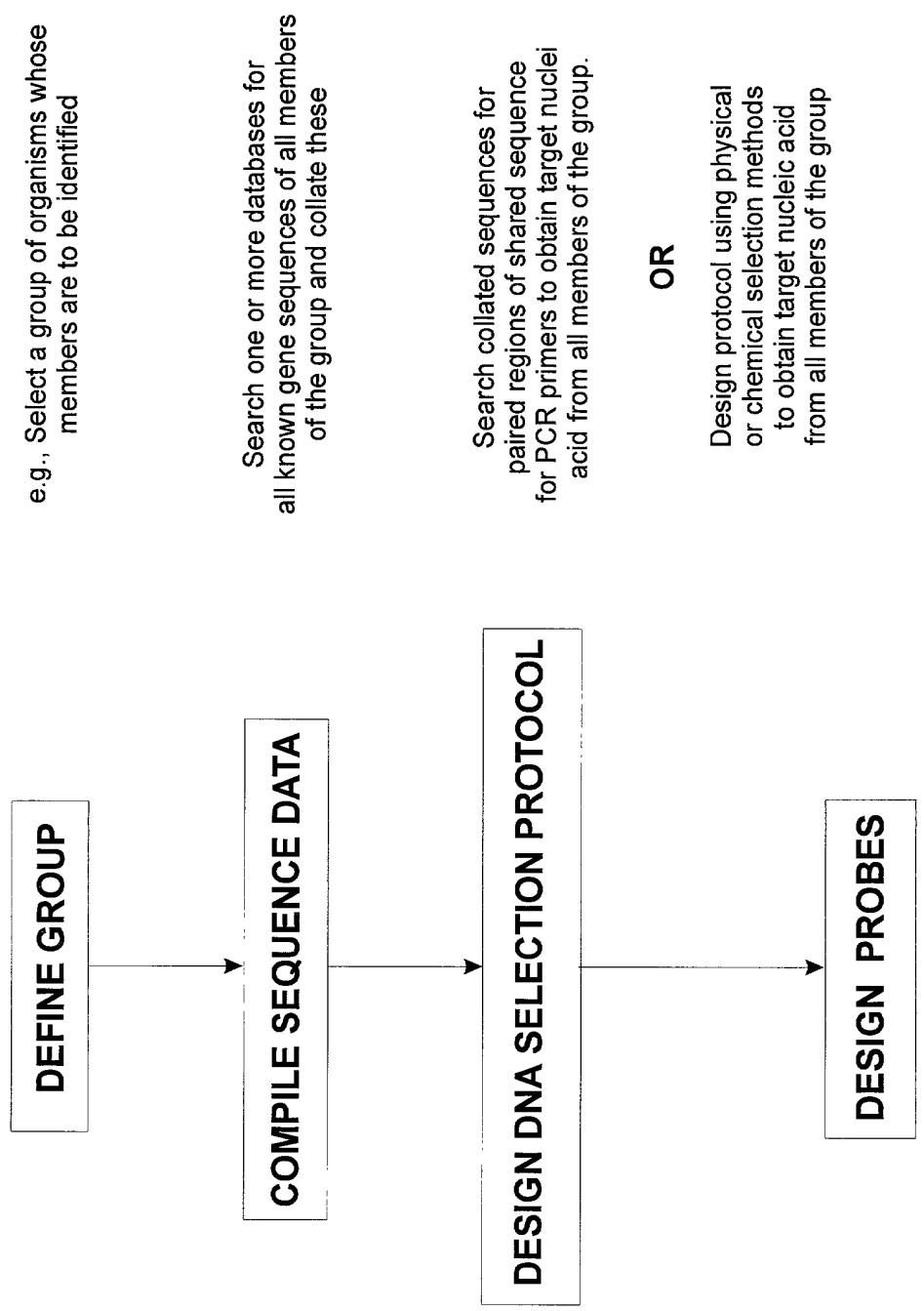


FIGURE 9



**FIGURE 10**



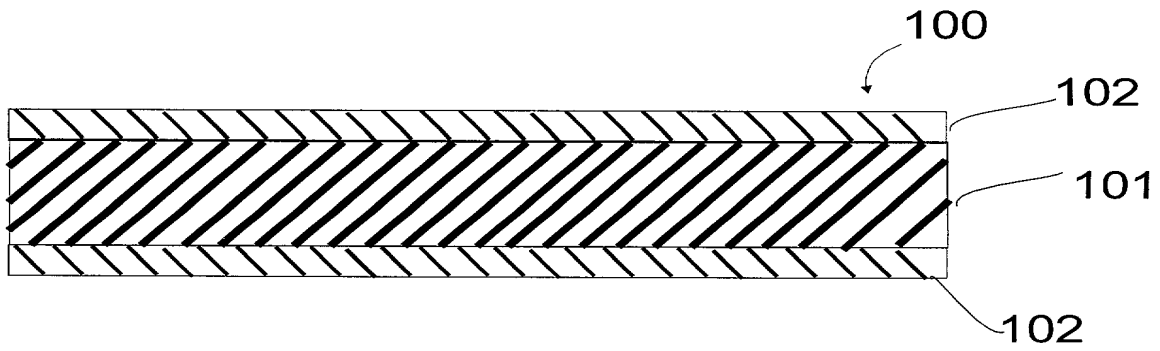


FIGURE 11

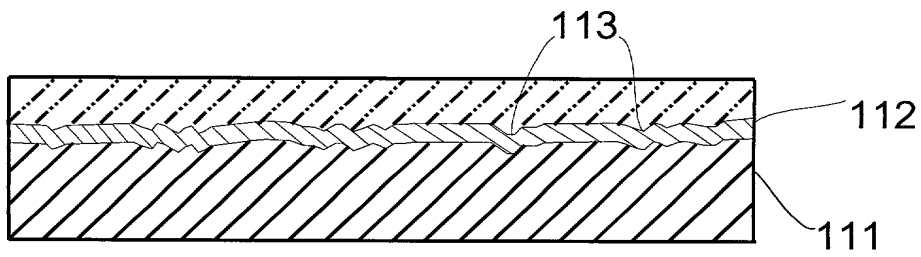


FIGURE 12